City of Bradford Metropolitan District Council
in association with Bradford Community Statistics Project

Bradford District Locality Analysis System LAS

"Getting hold of social statistics for our neighbourhoods"

User Manual

July 2013

For any initial enquiries please e-mail **GIS@bradford.gov.uk**
Whilst every effort will be made to respond within Council customer services guidelines this is not a help-desk facility and responses may take sometime to progress.

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1. Introduction to the Bradford District Locality Analysis System - new resource

New mapping system based on Census 2011 data for Bradford District (plus whole of Yorkshire & Humberside and North West)

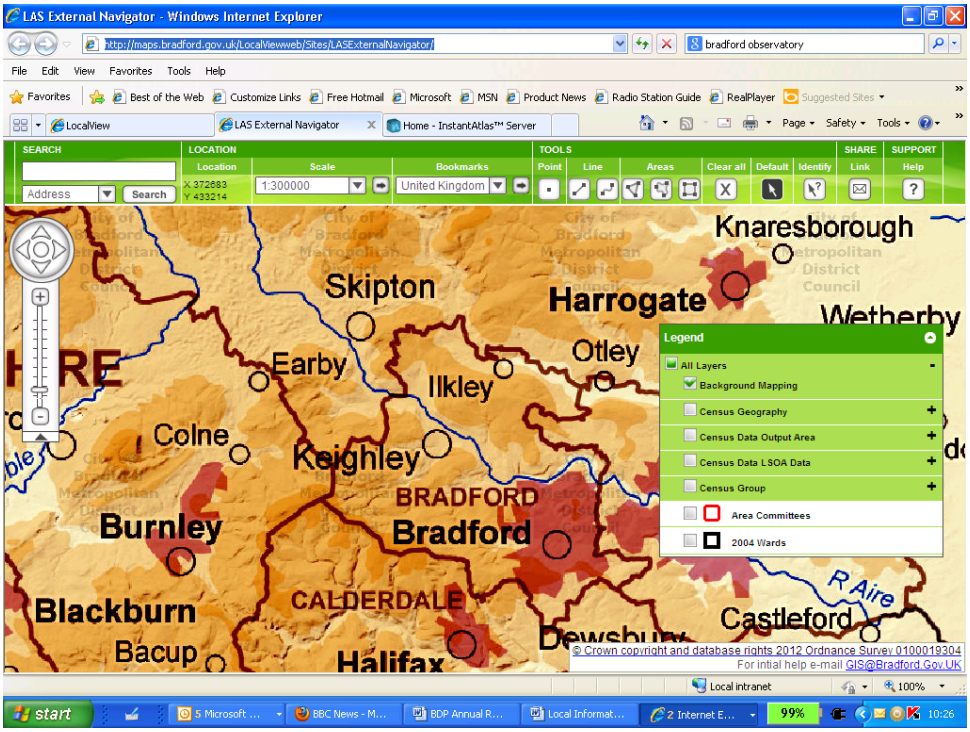
This online web-based self service system aims to make key datasets available for partner organisations and the public to explore and use for locality mapping. The tool will enable users to identify the area of the district they are interested in and following some straightforward steps extract some key data tables – based on Census 2011 information in the first instance – for use in other packages like Excel, Access, Word or otherwise. This is based on the Council new Geographic Information System GIS with ArcGIS and LocalViewFusion)

The Locality Analysis System can be accessed via www.bradford.gov.uk/publicinformation (July 2013 - Interim arrangement – access by Council staff and partners on the Council network and via 16 PCs in Council reception areas in 8 buildings throughout the District – details via web address above)

From 1st July, this is an interim approach subject to planned software upgrades, further developments and data sourcing.

Locality Analysis System – working with GIS

Once you have gained access to the system you will be faced with a window displaying the LAS External Navigator (see Diagram 1).



The navigator will display a map of Bradford, tool bar at the top of the page, a navigation tool on the top left and a legend at the right side of the page. Please note you may be prompted by your browser to "allow blocked content to be displayed", should this message appear please right click and allow. Once you are happy that the system has loaded correctly please follow the steps below to extract data.

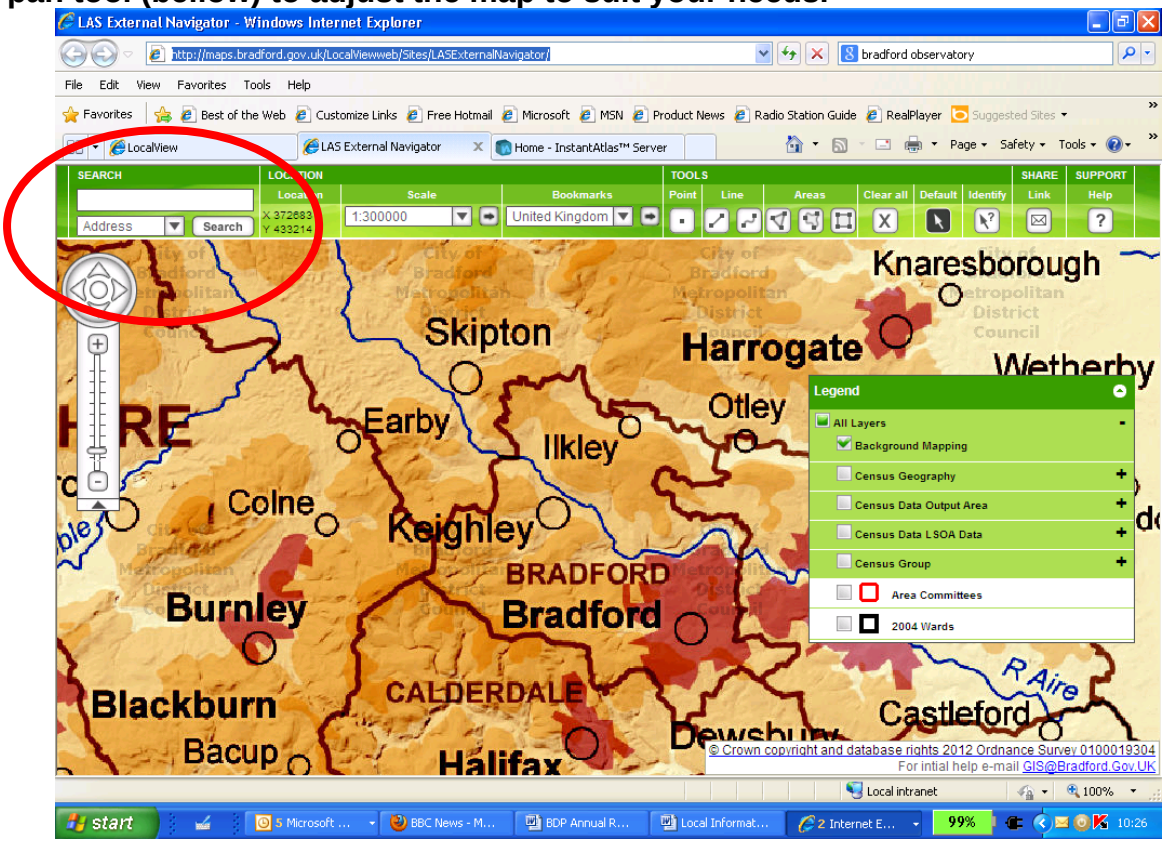
The LAS contains base maps for the whole of the UK and initial datasets covering at least Y&H and the NW and is not therefore constrained by the Bradford District boundary.

2. Searching for your area of interest

Once the LAS has loaded up one of the first steps you need to take is to navigate the map to your approximate area of interest. To do this you can use one of two options:

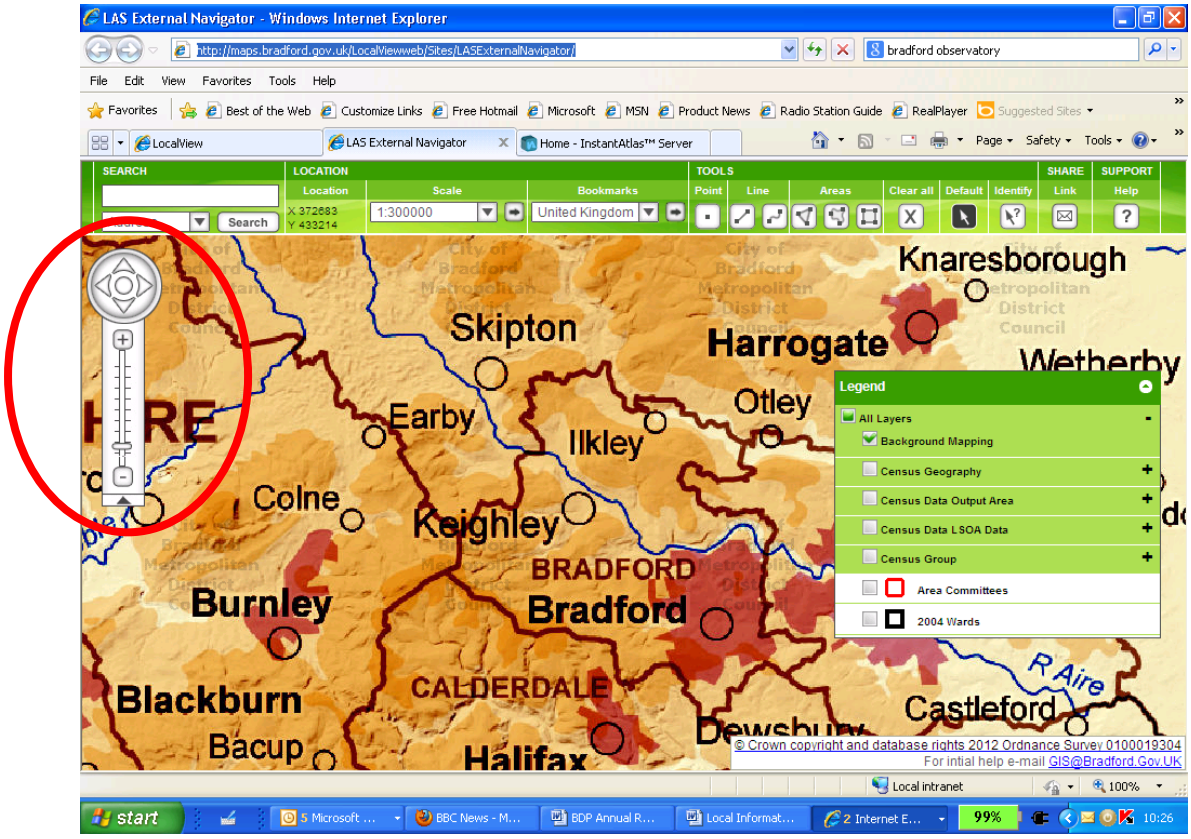
a. Search Functionality

The search tool is located on the top left of the tool bar. To use it you can simply enter part of an address such as a postcode or street name into the text box and click search. This will return a results box with a list of addresses, selecting an address will automatically navigate the map to that particular address. Once you have got to this stage use the pan tool (bellow) to adjust the map to suit your needs.



b. Navigate, Pan & Zoom

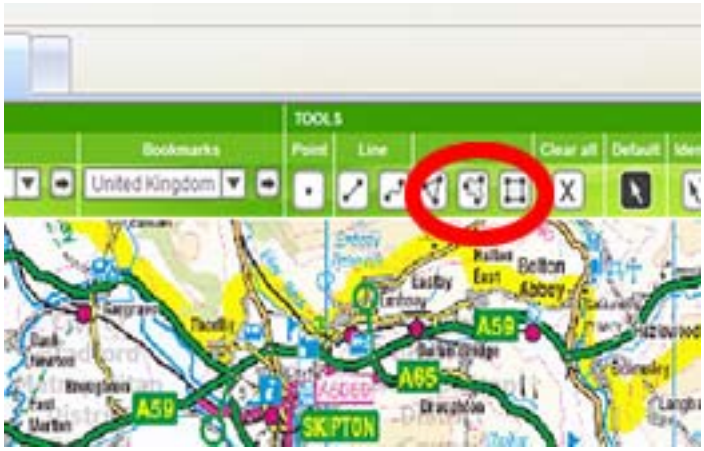
To navigate to your area of interest simply hover over the area on the map and double click to zoom in. Single left click and hold down to drag the map in the direction you would like to move it. Alternatively you can use the pan tool located at the top left hand side of the map. Use the slider to zoom in and out and click on the arrows to move the map in the direction you would like.



3. Specifying and drawing your boundary

The next step you will need to take is to draw a boundary which highlights the area you are interested in selecting data about.

To do this click on one of the polygon tools in the Areas section of the tool bar.



Draw your area of interest by using the Areas tools

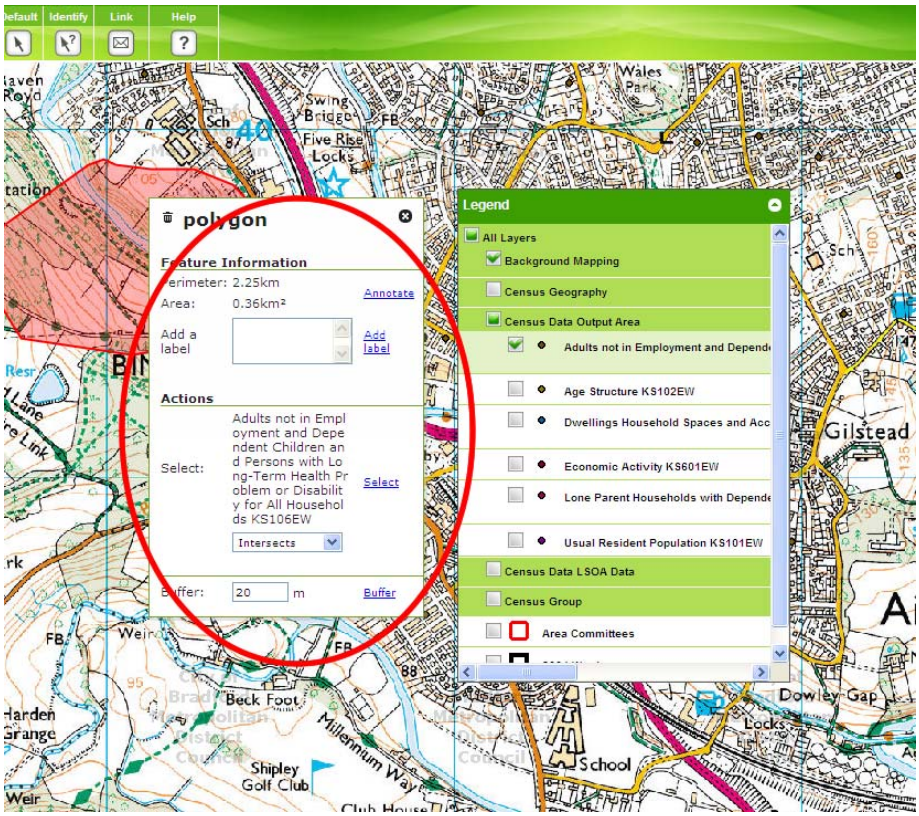
- **Create Polygon – for more precise shape creation**
- **Create freestyle polygon – for loose broad areas; or**
- **Create rectangle – for fixed sided shapes**

Position the cursor on the map and right click where you would like the boundary line and double clicking at the end to close the boundary and create an enclosed polygon.

Note: Areas of interest may cross the Bradford District boundary as Output Area datasets have been added for Yorkshire and the Humber Local Authorities and North West Local Authorities, allowing for sub-regional, city-region and other scales of analysis.

This will automatically launch a feature information window. This window will be pre populated with information relating to your selection, to see the results of your selection you simply need to click on the select button.

It is intended that in future versions, maps and the digital shape of the area of interest can be saved, exported and printed. In the meantime, a screenshot will have to suffice.



4. Selecting datasets you are interested in

You are now ready to run a report to extract data for your area of interest. On the right hand side you will see a legend with a list of layers.

Initial datasets (July 2013) include:
All datasets are CENSUS 2011 Key Statistics for Y&H and NW Local Authorities (with Output Area scale datasets) unless stated

> Usual Resident Population, 2011 (KS101EW)
> Age Structure, 2011 (KS102EW)
> Adults not in Employment &Dependent Children & Persons with Long-Term Health Problem or Disability for All Households, 2011 (KS106EW)
> Dwellings, Household Spaces and Accommodation Type, 2011 (KS401EW)
> Economic Activity, 2011 (KS601EW)
> Lone Parent Households with Dependent Children, 2011 (KS107EW)
> Extra sets (e.g. Ethnic Diversity, Health Status and Carers, Occupation, Qualifications & Students) Y&H and NW Local Authorities Output Areas
> UK Index of Deprivation 2010 – Headlines for Y&H and NW at Lower Super Output Area
> Boundaries – Wards, Constituencies, Regeneration Areas etc

The 2011 Census data within the system is sourced at Output Area level (and has been connected to population weighted centroids for each Output Area to enable best-fit extraction of data as per the Office of National Statistics policy and guidance). Index of Multiple deprivation 2010 data is available based on lower super output areas (with their population weighted centroids)

Click on the plus sign to expand the data layers available at output area: Select your data layer by checking the tick box and then clicking on the data label name. (This will display the centroids on the map).

5. View and Export your results

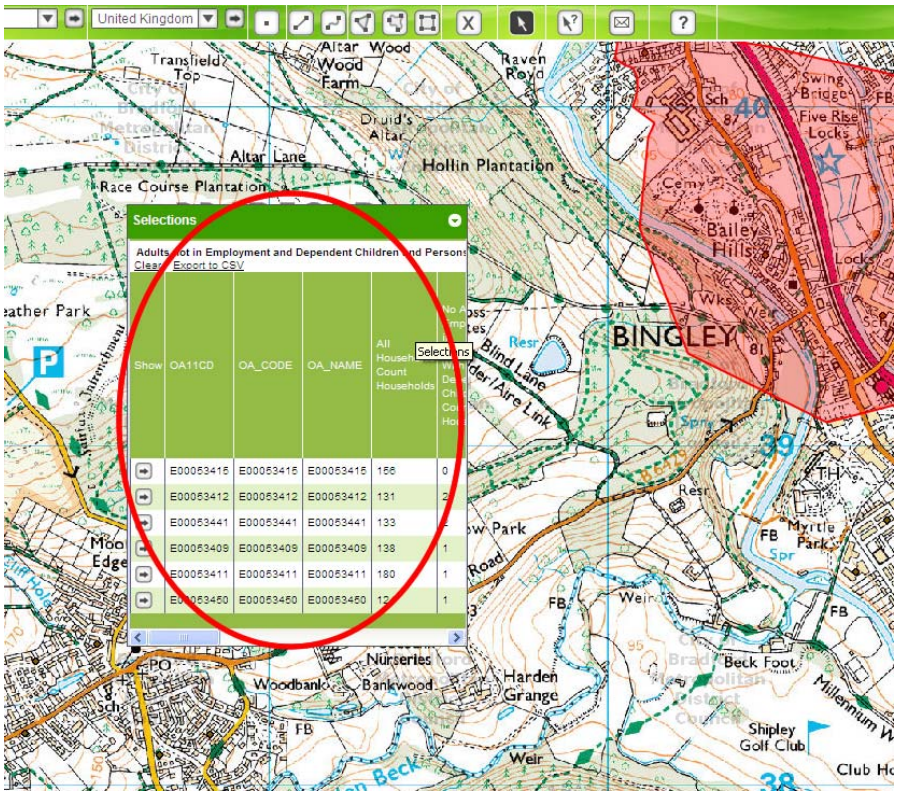
Downloading your results and keeping them as an excel file or similar…

Your results will automatically appear within a window on the screen. You can view and choose to export your results table in a .csv format by clicking on the export to csv button at the top of the window and specifying a location to save the file.

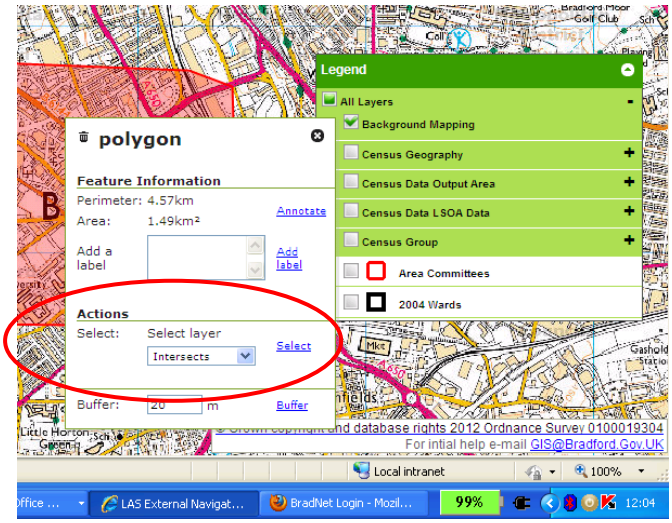
Depending on the default settings on the machine the .csv file download might offer the option to open automatically in a standard software application like Excel.

CSV files can be opened as tables in spreadsheet packages like Excel. For those who are not used to using spreadsheets like Excel rest assured most people find them fairly easy to use after a while and they are a very common format for data management.

http://en.wikipedia.org/wiki/Comma-separated_values



If no results are generated it is possible that the dataset was not selected



You will need to go to the Legend to select your dataset of interest, then run the query again.

Bulk extracts

If you select Census Group then this pre-selects ALL datasets and exports a giant table in CSV format of all datasets and fields available through LAS (for the 6 initial datasets in the first instance namely Usual Resident Population, Age Structure, Dwellings, Economic Activity and Lone Parent Households)

Use Warning

Areas of interest really ought to include two or more Population Weighted Centroids (these can be made visible along with the OA boundaries via the Legend). Anything smaller is likely to return either no data or statistically weak data.

Depending on the size of the Area of Interest given that this scales to UK level some queries for extracts may not return, if too large.

Every effort has been made to allow for District scale or below, or cross-border areas, that might be deemed reasonable for data processing. The system has been tailored for web use rather than desktop processing and depends on the pressures on the Council systems and internet traffic.

Further advice and support on using CSV export files and on their manipulation and use can be obtained via

a) ***Strategic Support or other Council officers subject to existing expertise, work commitments and pressures***
b) **for community organisations via** Bradford Resource Centre and Community Statistics Project http://www.brc-net.org.uk/ project on our new phone number is 01274 725046 or by email mike@brc-net.org,uk subject to pressures of other work and to funding constraints.

6. Locality Analysis System LAS – User Warning & Methodology

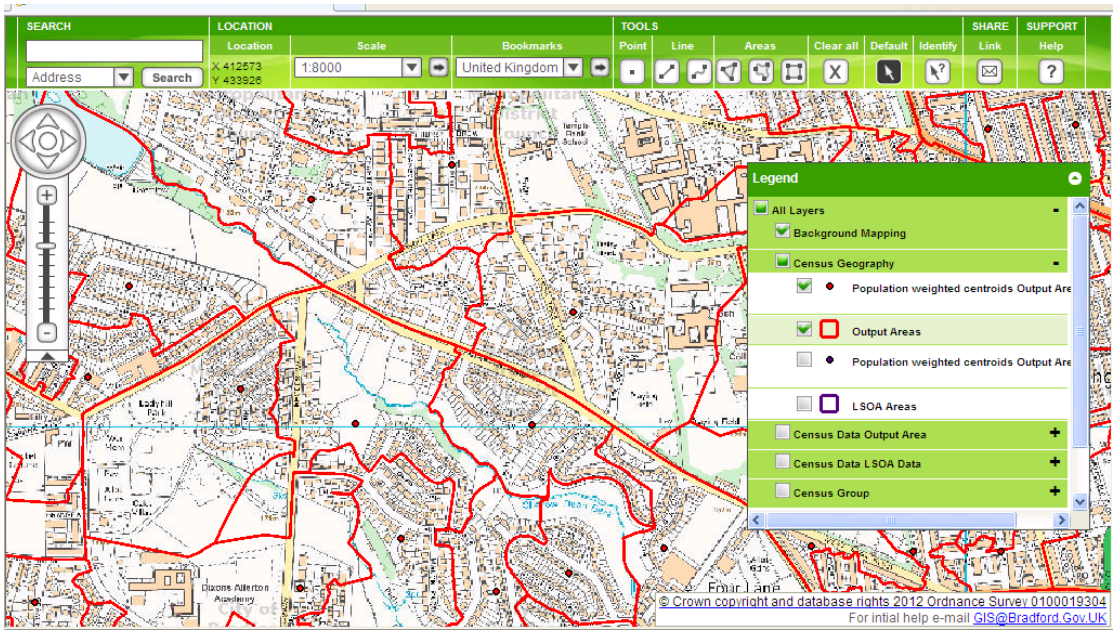
The CBMDC monitors the quality of the information available on this web site and updates the information as necessary. However CBMDC does not guarantee, and accepts no legal liability arising from or connected to, the accuracy, reliability, currency or completeness of any material contained on this web site or on any linked site.

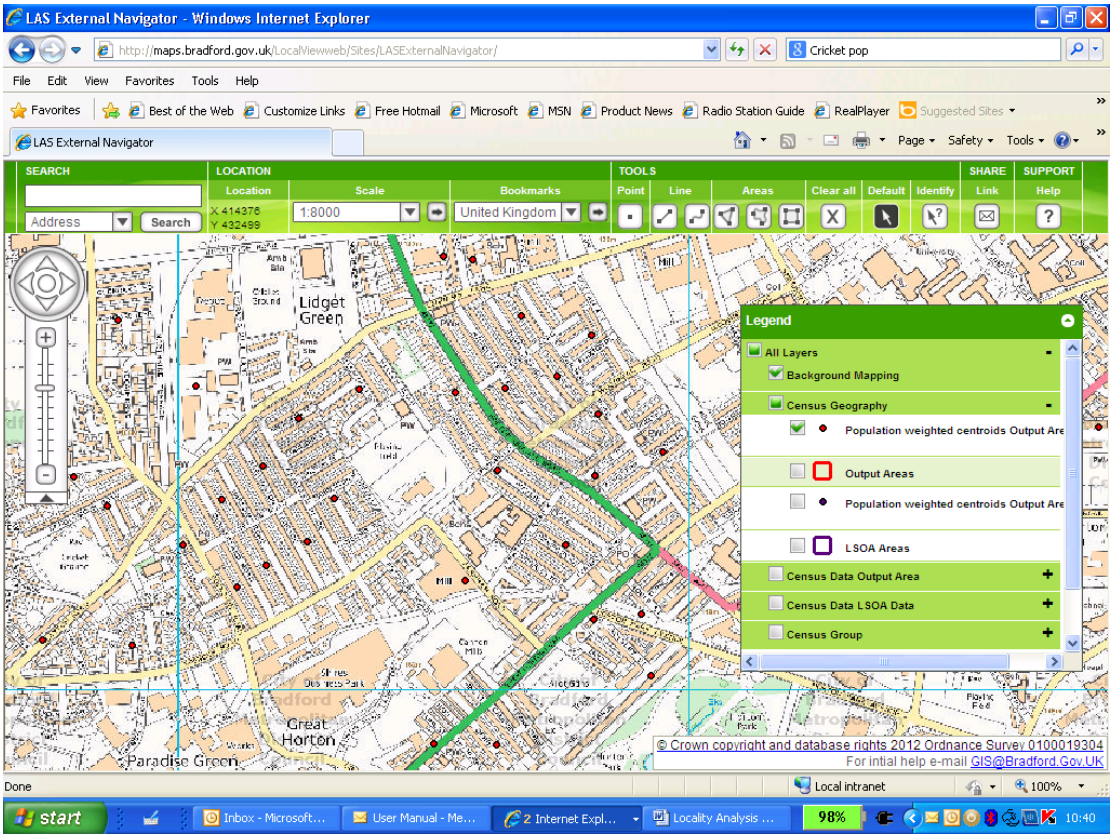
Please Note: the system is presenting estimates for any rates or percentages provided in the extracted data. Uncritical use of statistics may harm the credibility of arguments & assumptions based upon them.

The methodology used is based on ONS policy and guidance for 'best-fit' data extraction (using what are known as Population Weighted Centroids) Using a range of statistical geographies may lead to variation with other datasets for Wards, Areas etc and this is acknowledged alongside the value of users being able to self-define their own areas of interest.

It is possible to use the Legend to see the OA/LSOA boundaries. Select Census Geography and check the boxes for Population Weighted Centroids (Output Areas) and Output Areas to display the ONS basis for presenting the 2011 Census Data.

(i) a screenshot to indicate exactly how to make centroids visible





(ii) The red dots are the Population Weighted centroids. OA Centroids are created to reflect the balance of population within each output area (OA). The ONS use this method at other levels of statistical presentation and for approximation.

There are about five OAs in each SOA (lower level super output area)

The CBMDC recommends that users exercise their own skill and care with respect to their use of this web site and that users carefully evaluate the accuracy, currency, completeness and relevance of the material on the web site for their purposes.

7. Contact Information

Community/campaign groups or social enterprises seeking help & advice in working with this data can contact Bradford Resource Centre and Community Statistics Project http://www.brc-net.org.uk/ project on 01274 725046 and by email to mike@brc-net.org,uk subject to pressures of other work and to funding constraints.
For technical queries please contact Strategic Support via e-mail gis@bradford.gov.uk

Whilst every effort will be made to respond to contact within Council customer services policy and guidelines, this is not a help-desk facility and responses may take sometime to progress.

Other resources are also available through Bradford Observatory (including the Local Information System LIS powered through InstantAtlas Server) http://www.westyorkshireobservatory.org/

An online survey is available for LAS users via
http://www.bradford.gov.uk/surveys/bdlas/locality_analysis_survey_las.htm

Constructive feedback and contact details gratefully received so we can keep users in touch with refinements, planned developments or any service disruption issues.

Feedback and improvements for these Instructions is welcomed via GIS@bradford.gov.uk (Please include LAS User in the Subject Line)